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Feb 12, 1985

DERWENT-ACC-NO: 1985-072430

DERWENT-WEEK: 198512

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TITLE: Fertiliser prodn. - involves culturing leguminous, photosynthetic and sulphur bacterial and mixing with cultured nitrifying, cellulose decomposing etc. bacteria

PATENT-ASSIGNEE: NIPPON LIFE KK (NILIN)

PRIORITY-DATA: 1983JP-0134471 (July 25, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 60027672 A	February 12, 1985		004	
JP 92042355 B	July 13, 1992		003	C05F011/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 60027672A	July 25, 1983	1983JP-0134471	
JP 92042355B	July 25, 1983	1983JP-0134471	
JP 92042355B		JP 60027672	Based on

INT-CL (IPC): C05F 11/08

ABSTRACTED-PUB-NO: JP 60027672A

BASIC-ABSTRACT:

Method of producing fertiliser comprises inoculating leguminous bacteria, photosynthetic bacteria and sulphur bacteria on a mixt. of water, grass ash and sucrose (or maltose) and culturing the mixt. at about 25 deg.C to form the culture A; also inoculating nitrifying bacteria, cellulose-decomposing bacteria, Streptomyces, Aspergillus, Sacharomyces, Bacillus and Pseudomonas on the medium and culturing the mixt. to form the culture B; and then culture A and the culture B are mixed to form the fertiliser.

If desired, the fertiliser can have added gypsum, rice bran, bone powder, dried excrements of domestic animals, etc.. Pref. Leguminous bacteria used are Rhizobium Japonicum, Rhizobium meliloti, Rhizobium trifolii, Rhizobium leguminosarum, etc.. Photosynthetic bacteria used are Rhodopseudomonas capsulatus, Clostridium Butyricum, Clostridium pasteurianum, Clostridium

aceticum, etc.. Sulphur bacteria are Thiobacillus thioparus, Thiobacillus thiooxidans, Thiobacillus denitrificans, etc.. Nitrifying bacteria are nitrosomonas europaea, Nitrosomonas oligocarbogenes, Nitrobacter winogradakyi, Nitrobacter agilis, etc.. Pseudomonas used are Pseudomonas viscosissima, Pseudomonas fluorescens, etc..

ADVANTAGE - The fertiliser shows high fertilising effect and soil conditioning effect. Further, it prevents the propagation of harmful bacteria, and is effective in control of root knot, mosaic diseases, canker and stem rot.

ABSTRACTED-PUB-NO: JP 60027672A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: C04 D16

CPI-CODES: C04-A07F; C04-B02B; C07-A02; C12-N07; C12-N10; D05-C;